SANTA CRUZ BIOTECHNOLOGY, INC.

Pericentrin 2 (N-20): sc-28143

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Pericentrin 2, also known as Pericentrin B or Kendrin, is an integral component of the pericentriolar material. The protein localizes specifically to centrosomes throughout all stages of the cell cycle. The protein remains centrosomal following microtubule depolymerization. Pericentrin 2 binds calmodulin and is widely expressed in most tissues, including kidney, placenta, liver and thymus.

REFERENCES

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3. Miyoshi, K., Asanuma, M., Miyazaki, I., Diaz-Corrales, F.J., Katayama, T., Tohyama, M. and Ogawa, N. 2004. DISC1 localizes to the centrosome by binding to kendrin. Biochem. Biophys. Res. Commun. 317: 1195-1199.
4. Zimmerman, W.C., Sillibourne, J., Rosa, J. and Doxsey, S.J. 2004. Mitosis-specific anchoring of γ-tubulin complexes by pericentrin controls spindle organization and mitotic entry. Mol. Biol. Cell 15: 3642-3657.
5. Giehl, M., Fabarius, A., Frank, O., Hochhaus, A., Hafner, M., Hehlmann, R. and Seifarth, W. 2005. Centrosome aberrations in chronic myeloid leukemia correlate with stage of disease and chromosomal instability. 2005. Leukemia 19: 1192-1197.
6. Golubkov, V.S., Chekanov, A.V., Doxsey, S.J. and Strongin, A.Y. 2005. Centrosomal pericentrin is a direct cleavage target of membrane type-1 matrix metalloproteinase in humans but not in mice: potential implications for tumorigenesis. J .Biol. Chem. 280: 42237-44241.

CHROMOSOMAL LOCATION

Genetic locus: PCNT2 (human) mapping to 21q22.3.

SOURCE

Pericentrin 2 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Pericentrin 2 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-28143 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Pericentrin 2 (N-20) is recommended for detection of Pericentrin 2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Pericentrin 2 siRNA (h): sc-45456, Pericentrin 2 shRNA Plasmid (h): sc-45456-SH and Pericentrin 2 shRNA (h) Lentiviral Particles: sc-45456-V.

Molecular Weight of Pericentrin 2: 220 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

SELECT PRODUCT CITATIONS

1. Griffith, E., Walker, S., Martin, C.A., Vagnarelli, P., Stiff, T., Vernay, B., Al Sanna, N., Saggar, A., Hamel, B., Earnshaw, W.C., Jeggo, P.A., Jackson, A.P. and O'Driscoll, M. 2008. Mutations in pericentrin cause Seckel syndrome with defective ATR-dependent DNA damage signaling. Nat. Genet. 40: 232-236.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.